

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**January**  
**2011**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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State of California  
Department of Water Resources  
P.O. Box 942836  
Sacramento, CA 94236-0001

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**JOHN LAIRD, Secretary for Resources**

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**MARK COWIN, Director**

Department of Water Resources  
**DALE HOFFMAN-FLOERKE, Chief Deputy Director**

PAUL HELLIKER Deputy Director	GARY BARDINI Deputy Director	CARL TORGERSEN Deputy Director	JOHN PACHECO Deputy Director	KATHIE KISHABA Deputy Director
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**DIVISION OF OPERATIONS AND MAINTENANCE**

David Duval..... Chief, Division of Operations and Maintenance

This report was prepared under the direction of

David Roose..... Office Chief, Operations Control Office

John Leahigh..... Principal Engineer, Water Operations office

Tracy Hinojosa ..... Branch Chief, Regulatory Compliance and Reporting Branch

By the Reporting Section

(Vacant)..... Section Chief, Reporting Section

Michael Nolasco..... Water Resources Engineering Associate (Specialist)

Mary Valdez ..... Water Resources Engineering Associate (Specialist)

Clay Thomas ..... Water Resources Engineering Associate (Specialist)

The organization shown above represents staff and positions relevant to this report as of publication date on October 2013. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities highlight actions that affected State Water Project operations during January 2011:

Statewide precipitation was about 130 percent of average for the 2010 - 2011 water-year through January 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at:  
[“http://cdec.water.ca.gov/snow\\_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

Snowpack water content for January 2011 was about 135 percent of average compared to 115 percent at this time in 2010. This was about 85 percent of the April 1 average, the normal date of maximum accumulation.

Cumulative unimpaired runoff for the Sacramento River Region for the 2010 - 2011 water-year was 6.0 maf, 104 percent of average. Statewide runoff for the 2010 - 2011 water-year was 115 percent of average.

Statewide reservoir storage was 110 percent of average to date. Total storage in major SWP reservoirs at the end of January was about 3.99 maf compared to 2.31 maf at this time in 2010. On January 31, end-of-month storage at Lake Oroville was about 2.44 maf, as compared to 1.19 maf at this time in 2010. The State share of San Luis Reservoir's end-of-month storage was about 972 taf, as compared with 567 taf at this time in 2010. The combined storage in SWP's southern reservoirs was about 587 taf, compared with about 554 taf at this time in 2010.

SWP water deliveries to date through January were about 273 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2010 were 84 taf.

By mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, the accumulated COA balance in favor of the USBR was eliminated on December 30, 2010 and no accounting took place in January. The USBR balance remained at “zero” and conditions in the Delta remained in “Excess” with restricted operations. Excess conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports.

There were six measurable earthquakes during January, within the vicinity of the SWP; none met inspection criteria. On January 9, four vehicles were removed from the California Aqueduct, East Branch, by the Los Angeles County Sheriff. On January 13, California Highway Patrol reported that a total of 32 cars, four motorcycles, and one aluminum boat had been removed from the aqueduct. On January 18, repairs on Edmunston Units 4 and 8 were extended due to parts availability.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Dec 31	4998.12	19,115								
1	4998.20	19,183	68	10	0	0	0	1	11	
2	4998.26	19,234	51	10	0	0	0	1	11	
3	4998.34	19,302	68	10	0	0	0	1	11	
4	4998.38	19,336	34	10	0	0	0	1	11	
5	4998.43	19,379	43	10	0	0	0	1	11	
6	4998.48	19,421	42	10	0	0	0	1	11	
7	4998.53	19,464	43	10	0	0	0	1	11	
8	4998.60	19,524	60	10	0	0	0	1	11	
9	4998.62	19,541	17	10	0	0	0	1	11	
10	4998.68	19,593	52	10	0	0	0	1	11	
11	4998.72	19,627	34	10	0	0	0	1	11	
12	4998.76	19,661	34	10	0	0	0	1	11	
13	4998.84	19,730	69	10	0	0	0	1	11	
14	4998.94	19,816	86	10	0	0	0	1	11	
15	4999.04	19,903	87	10	0	0	0	1	11	
16	4999.18	20,024	121	10	0	0	0	1	11	
17	4999.36	20,181	157	10	0	0	0	1	11	
18	4999.54	20,339	158	10	0	0	0	1	11	
19	4999.30	20,129	-210	10	0	0	0	1	11	
20	4999.30	20,129	0	10	0	0	0	1	11	
21	4999.30	20,129	0	10	0	0	0	1	11	
22	4999.30	20,129	0	10	0	0	0	1	11	
23	4999.30	20,129	0	10	0	0	0	1	11	
24	4999.30	20,129	0	10	0	0	0	1	11	
25	4999.30	20,129	0	10	0	0	0	1	11	
26	4999.30	20,129	0	10	0	0	0	1	11	
27	4999.30	20,129	0	10	0	0	0	1	11	
28	4999.30	20,129	0	10	0	0	0	1	11	
29	4999.30	20,129	0	10	0	0	0	1	11	
30	4999.30	20,129	0	10	0	0	0	1	11	
31	4999.30	20,129	0	10	0	0	0	1	11	
Total cfs-days				- - -	310	0	0	31	341	
Total ac-ft				1,014	615	0	0	61	676	
									1,690	

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Dec 31	5562.30	23,555									
1	5562.38	23,630	75	2	0	0	0	1	3	41	
2	5562.39	23,639	9	2	0	0	0	1	3	8	
3	5562.39	23,639	0	2	0	0	0	1	3	3	
4	5562.41	23,658	19	2	0	0	0	1	3	13	
5	5562.42	23,667	9	2	0	0	0	1	3	8	
6	5562.43	23,676	9	2	0	0	0	1	3	8	
7	5562.47	23,714	38	2	0	0	0	1	3	22	
8	5562.49	23,732	18	2	0	0	0	1	3	12	
9	5562.50	23,742	10	2	0	0	0	1	3	8	
10	5562.51	23,751	9	2	0	0	0	1	3	8	
11	5562.54	23,779	28	2	0	0	0	1	3	17	
12	5562.58	23,817	38	2	0	0	0	1	3	22	
13	5562.62	23,854	37	2	0	0	0	1	3	22	
14	5562.63	23,863	9	2	0	0	0	1	3	8	
15	5562.68	23,910	47	2	0	0	0	1	3	27	
16	5562.73	23,957	47	2	0	0	0	1	3	27	
17	5562.83	24,051	94	2	0	0	0	1	3	50	
18	5562.94	24,155	104	2	0	0	0	1	3	55	
19	5563.04	24,250	95	2	0	0	0	1	3	51	
20	5563.09	24,297	47	2	0	0	0	1	3	27	
21	5563.15	24,354	57	2	0	0	0	1	3	32	
22	5563.22	24,420	66	2	0	0	0	1	3	36	
23	5563.30	24,497	77	2	0	0	0	1	3	42	
24	5563.33	24,525	28	2	0	0	0	1	3	17	
25	5563.39	24,582	57	2	0	0	0	1	3	32	
26	5563.45	24,640	58	2	0	0	0	1	3	32	
27	5563.51	24,697	57	2	0	0	0	1	3	32	
28	5563.54	24,726	29	2	0	0	0	1	3	18	
29	5563.61	24,793	67	2	0	0	0	1	3	37	
30	5563.69	24,870	77	2	0	0	0	2	4	43	
31	5563.72	24,898	28	2	0	0	0	2	4	18	
Total cfs-days				---	62	0	0	33	95	772	
Total ac-ft				1,343	123	0	0	66	189	1,532	

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract					
Dec 31	5766.20	52,937									
1	5766.22	52,999	62	10	0.0	0	0	3	13	44	
2	5766.22	52,999	0	10	0.0	0	0	3	13	13	
3	5766.23	53,030	31	10	0.0	0	0	3	13	29	
4	5766.23	53,030	0	10	0.0	0	0	3	13	13	
5	5766.24	53,062	32	10	0.0	0	0	3	13	29	
6	5766.23	53,030	-32	10	0.0	0	0	3	13	-3	
7	5766.23	53,030	0	10	0.0	0	0	3	13	13	
8	5766.24	53,062	32	10	0.0	0	0	4	14	30	
9	5766.23	53,030	-32	10	0.0	0	0	4	14	-2	
10	5766.24	53,062	32	10	0.0	0	0	4	14	30	
11	5766.23	53,030	-32	10	0.0	0	0	4	14	-2	
12	5766.22	52,999	-31	10	0.0	0	0	4	14	-2	
13	5766.22	52,999	0	10	0.0	0	0	4	14	14	
14	5766.24	53,062	63	10	0.0	0	0	4	14	46	
15	5766.23	53,030	-32	10	0.0	0	0	4	14	-2	
16	5766.23	53,030	0	10	0.0	0	0	4	14	14	
17	5766.23	53,030	0	10	0.0	0	0	4	14	14	
18	5766.23	53,030	0	10	0.0	0	0	4	14	14	
19	5766.23	53,030	0	10	0.0	0	0	4	14	14	
20	5766.23	53,030	0	10	0.0	0	0	4	14	14	
21	5766.23	53,030	0	10	0.0	0	0	4	14	14	
22	5766.23	53,030	0	10	0.0	0	0	4	14	14	
23	5766.23	53,030	0	10	0.0	0	0	4	14	14	
24	5766.23	53,030	0	10	0.0	0	0	4	14	14	
25	5766.23	53,030	0	10	0.0	0	0	4	14	14	
26	5766.23	53,030	0	10	0.0	0	0	4	14	14	
27	5766.23	53,030	0	10	0.0	0	0	4	14	14	
28	5766.23	53,030	0	10	0.0	0	0	4	14	14	
29	5766.23	53,030	0	10	0.0	0	0	4	14	14	
30	5766.23	53,030	0	10	0.0	0	0	4	14	14	
31	5766.23	53,030	0	10	0.0	0	0	4	14	14	
Total cfs-days			---	310	0	0	0	117	427	474	
Total ac-ft			93	615	0	0	0	233	848	941	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow						Inflow		
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Dec 31	798.99	2,180,369										
	1 800.29	2,195,015	14,646	2,298	0	0	0	39	0	2,337	0	16,983
	2 801.58	2,209,616	14,601	2,282	0	0	0	0	0	2,282	0	16,883
	3 802.55	2,220,640	11,024	4,666	0	0	0	7	0	4,673	0	15,697
	4 803.17	2,227,707	7,067	7,441	0	0	0	42	0	7,483	0	14,550
	5 803.81	2,235,018	7,311	5,140	0	0	0	28	0	5,168	0	12,479
	6 804.31	2,240,741	5,723	8,046	0	0	0	0	0	8,046	0	13,769
	7 804.83	2,246,704	5,963	6,823	0	0	0	35	0	6,858	0	12,821
	8 805.38	2,253,024	6,320	5,392	0	0	0	7	0	5,399	0	11,719
	9 805.92	2,259,240	6,216	5,105	0	0	0	0	0	5,105	0	11,321
	10 806.44	2,265,238	5,998	5,533	0	0	0	21	0	5,554	0	11,552
	11 806.92	2,270,784	5,546	6,738	0	0	0	36	0	6,774	0	12,320
	12 807.50	2,277,498	6,714	3,959	0	0	0	7	0	3,966	0	10,680
	13 808.20	2,285,619	8,121	4,803	0	0	0	14	0	4,817	0	12,938
	14 809.08	2,295,858	10,239	3,524	0	0	0	7	0	3,531	0	13,770
	15 809.75	2,303,675	7,817	3,526	0	0	0	29	0	3,555	0	11,372
	16 810.11	2,307,882	4,207	3,784	0	0	0	0	0	3,784	0	7,991
	17 811.46	2,323,709	15,827	4,513	0	0	0	0	0	4,513	0	20,340
	18 812.19	2,332,298	8,589	4,727	0	0	0	0	0	4,727	0	13,316
	19 813.13	2,343,391	11,093	5,231	0	0	0	36	0	5,267	0	16,360
	20 813.86	2,352,031	8,640	5,013	0	0	0	51	0	5,064	0	13,704
	21 814.58	2,360,574	8,543	4,362	0	0	0	29	0	4,391	0	12,934
	22 815.33	2,369,495	8,921	3,486	0	0	0	37	0	3,523	0	12,444
	23 816.07	2,378,321	8,826	3,436	0	0	0	132	0	3,568	0	12,394
	24 816.74	2,386,331	8,010	5,077	0	0	0	29	0	5,106	0	13,116
	25 817.30	2,393,041	6,710	4,760	0	0	0	37	0	4,797	0	11,507
	26 817.79	2,398,922	5,881	5,402	0	0	0	37	0	5,439	0	11,320
	27 818.37	2,405,897	6,975	3,870	0	0	0	22	0	3,892	0	10,867
	28 818.96	2,413,006	7,109	3,221	0	0	0	60	0	3,281	0	10,390
	29 819.51	2,419,647	6,641	3,503	0	0	0	15	0	3,518	0	10,159
	30 820.40	2,430,423	10,776	2,156	0	0	1	0	0	2,157	0	12,933
	31 821.10	2,438,925	8,502	3,542	0	0	1	0	0	3,543	0	12,045
Total		258,556	141,359	0	0	2	757	0	142,118	0	400,674	

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation  
(in acre-feet except as noted)

**January 2011**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Water and Sewer	Releases To River 4/	Hyatt Powerplant Pumpback	
Dec 31	24,094										
1	23,633	-461	2,298	486	0	796	1	2	1,432	0	-1,014
2	23,231	-402	2,282	486	0	826	1	2	1,420	0	-921
3	24,616	1,385	4,666	486	0	2,219	1	2	1,424	0	-121
4	24,304	-312	7,441	486	0	6,693	1	2	1,440	0	-103
5	24,609	305	5,140	486	0	3,410	1	2	1,454	0	-454
6	24,789	180	8,046	486	0	7,048	1	2	1,466	0	165
7	24,488	-301	6,823	486	0	6,390	1	2	1,466	0	249
8	24,624	136	5,392	486	0	4,558	1	2	1,464	0	283
9	24,718	94	5,105	486	0	4,374	1	2	1,464	0	344
10	24,637	-81	5,533	486	0	4,947	1	2	1,466	0	316
11	24,502	-135	6,738	486	0	6,177	1	2	1,466	0	287
12	24,361	-141	3,959	486	0	3,416	1	2	1,482	0	315
13	24,492	131	4,803	486	0	4,108	1	2	1,464	0	417
14	24,459	-33	3,524	486	0	2,926	1	2	1,464	0	350
15	24,497	38	3,526	486	0	2,857	1	2	1,462	0	348
16	24,540	43	3,784	486	0	3,008	1	2	1,464	0	248
17	24,847	307	4,513	486	0	3,565	1	2	1,464	0	340
18	24,806	-41	4,727	486	0	4,079	1	2	1,468	0	296
19	24,701	-105	5,231	486	0	4,699	1	2	1,466	0	346
20	24,478	-223	5,013	486	0	4,498	1	2	1,458	0	237
21	24,528	50	4,362	486	0	3,690	1	2	1,452	0	347
22	24,601	73	3,486	486	0	2,708	1	2	1,448	0	260
23	24,316	-285	3,436	482	0	3,089	1	2	1,450	0	339
24	24,330	14	5,077	482	0	4,341	1	2	1,446	0	245
25	24,523	193	4,760	482	0	3,865	1	2	1,446	0	265
26	24,550	27	5,402	482	0	4,635	1	2	1,456	0	237
27	24,331	-219	3,870	482	0	3,255	1	2	1,452	0	139
28	24,272	-59	3,221	482	0	2,621	1	2	1,442	0	304
29	24,181	-91	3,503	486	0	2,909	1	2	1,440	0	272
30	24,317	136	2,156	486	0	1,278	1	2	1,446	0	221
31	24,620	303	3,542	486	0	2,444	0	1	1,442	0	162
Total		526	141,359	15,042	0	115,429	30	61	45,071	0	4,716

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation  
(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Dec 31	132.91	42,501											
1	132.54	41,110	-1,391	796	1,320	1	325	180	2,241	0	1,880	3,673	
2	132.14	39,631	-1,479	826	1,317	0	330	180	2,241	0	1,763	3,661	
3	131.73	38,142	-1,489	2,219	1,311	1	325	200	2,241	0	370	3,665	
4	132.37	40,479	2,337	6,693	1,301	1	330	230	2,261	0	-233	3,701	
5	132.37	40,479	0	3,410	1,300	1	330	272	2,261	0	754	3,715	
6	133.00	42,842	2,363	7,048	1,310	2	329	290	2,241	0	-514	3,707	
7	133.43	44,491	1,649	6,390	1,310	2	327	321	2,261	0	-520	3,727	
8	133.49	44,723	232	4,558	1,300	2	330	337	2,261	0	-96	3,725	
9	133.50	44,762	39	4,374	1,301	2	329	337	2,261	0	-105	3,725	
10	133.58	45,073	311	4,947	1,301	2	331	355	2,261	0	-386	3,727	
11	133.92	46,405	1,332	6,177	1,301	2	327	391	2,241	0	-583	3,707	
12	133.73	45,658	-747	3,416	1,301	0	325	400	2,241	0	104	3,723	
13	133.70	45,541	-117	4,108	1,301	2	327	500	2,222	0	127	3,686	
14	133.35	44,182	-1,359	2,926	1,301	0	325	500	2,241	0	82	3,705	
15	132.99	42,804	-1,378	2,857	1,301	2	327	486	2,241	0	122	3,703	
16	132.74	41,859	-945	3,008	1,305	2	327	486	2,241	0	408	3,705	
17	132.50	40,961	-898	3,565	1,300	1	327	190	2,241	0	-404	3,705	
18	132.51	40,998	37	4,079	1,300	0	327	0	2,241	0	-174	3,709	
19	132.63	41,446	448	4,699	1,300	0	330	0	2,241	0	-380	3,707	
20	132.79	42,047	601	4,498	1,300	0	329	0	2,241	0	-27	3,699	
21	132.71	41,746	-301	3,690	1,300	0	329	0	2,241	0	-121	3,693	
22	132.41	40,627	-1,119	2,708	1,200	0	330	0	2,241	0	-56	3,689	
23	132.28	40,146	-481	3,089	1,250	0	325	0	2,241	0	246	3,691	
24	132.65	41,521	1,375	4,341	298	0	161	0	2,241	0	-266	3,687	
25	133.01	42,880	1,359	3,865	0	0	0	0	2,241	0	-265	3,687	
26	133.60	45,151	2,271	4,635	0	0	0	0	2,241	0	-123	3,697	
27	133.86	46,168	1,017	3,255	0	0	0	0	2,241	0	3	3,693	
28	134.03	46,839	671	2,621	0	0	0	0	2,241	0	291	3,683	
29	134.22	47,592	753	2,909	0	0	0	0	2,241	0	85	3,681	
30	134.07	46,997	-595	1,278	0	0	0	0	2,241	0	368	3,687	
31	134.13	47,234	237	2,444	0	0	0	0	2,241	0	34	3,683	
Total				4,733	115,429	30,130	24	7,702	5,660	69,572	0	2,392	114,643

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

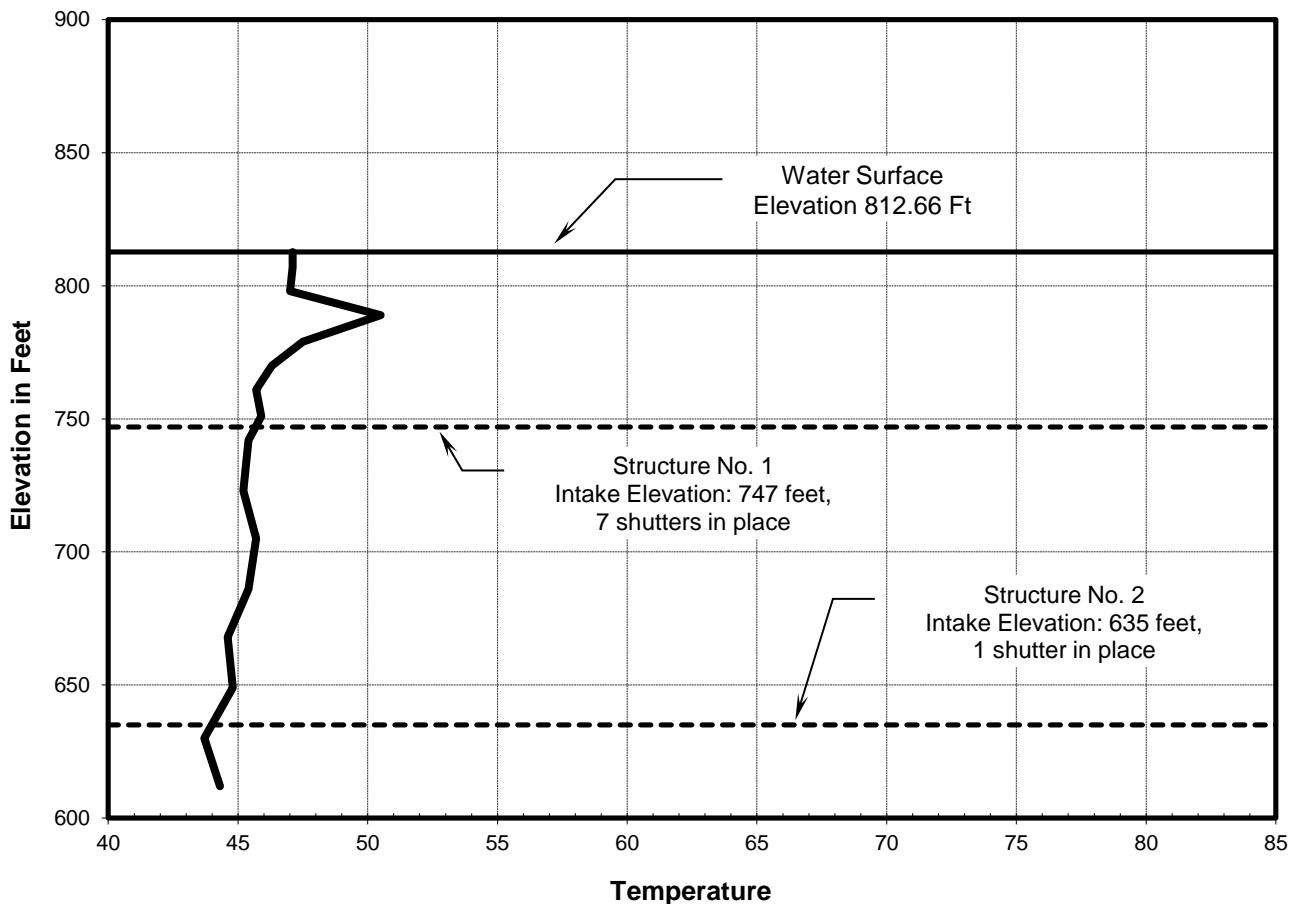
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

**January 2011**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	45.9	48
2	45.5	48
3	45.8	48
4	45.5	47
5	45.5	47
*6	0	47
7	47.8	47
8	47.8	47
9	47.8	47
10	47.8	46
11	47.7	46
12	47.7	47
13	47.7	47
14	47.8	47
15	47.7	47
16	47.7	47
17	47.8	47
*18	0	47
*19	0	47
*20	0	47
21	46.4	47
22	47.6	47
23	47.8	47
24	47.9	47
25	48.4	47
26	48.1	47
27	48.2	47
28	48	47
29	47.7	47
30	47.7	47
31	47.9	47

**Lake Oroville Temperature Profile  
on January 19, 2011**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.			Table A	Permit	Article 56C	Article 21	
	No.	Structure	Mile							
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	323	1	1	1	1	
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis AFB	0					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	0					
				Solano County Water Agency Fairfield / Vacaville 42"	0					
	3A		17.00	Solano County Water Agency Central Solano	Stub					
		Cordelia Forebay	21.23							
		Cordelia Pumping Plant & Cordelia Spillway	21.30		318					
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	0					
				Solano County Water Agency Benicia	0					
3B	2	Cordelia Surge Tank	23.33			1	1	1	1	
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	1					
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	145			145	145	
			27.60	Napa County Flood Control & WCD American Canyon 1	172					

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

January 2011

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	10	10	14,564	14,564	0	0	0	166
2	0	1	12,520	12,520	0	0	0	162
3	2	4	12,504	12,504	0	0	0	151
4	11	8	12,520	12,520	0	0	0	149
5	1	3	16,990	16,990	0	0	0	150
6	15	12	16,783	16,783	0	0	0	138
7	0	3	16,834	16,834	0	0	0	128
8	0	0	17,000	17,000	0	0	0	133
9	14	11	16,160	16,160	0	0	0	143
10	8	8	14,493	14,493	0	0	0	74
11	0	0	16,064	16,064	0	0	0	0
12	0	4	15,968	15,968	0	0	0	0
13	11	8	14,704	14,704	0	0	0	0
14	10	12	14,704	14,704	30	0	0	0
15	3	3	13,960	13,960	3	0	0	0
16	11	10	13,960	13,960	0	0	0	0
17	0	0	14,704	14,704	7	0	0	0
18	0	0	14,704	14,704	2	0	0	0
19	11	10	14,704	14,704	3	0	0	0
20	10	10	12,371	12,371	0	0	0	0
21	0	1	14,301	14,301	0	0	0	0
22	11	12	13,960	13,960	0	0	0	0
23	5	2	13,712	13,712	7	0	0	0
24	9	8	11,395	11,395	7	0	0	0
25	6	7	9,583	9,583	100	0	0	7
26	8	8	8,792	8,792	21	0	0	168
27	36	36	8,792	8,792	174	0	0	105
28	29	29	9,688	9,688	201	0	0	67
29	34	29	9,536	9,536	194	0	0	62
30	32	37	9,536	9,536	194	0	0	53
31	36	32	9,571	9,571	193	0	0	14
Total	323	318	415,077	415,077	1,136	0	0	1,870

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**January 2011**

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	01:00	13:30	16:15	20:50							12,871
2	01:45	14:30	18:40	19:45							12,889
3	02:30	15:15	17:45	19:58							12,873
4	00:01	00:30	03:30	16:00	18:30	20:15					12,887
5	00:01	00:45	03:45	16:45	19:05	21:50					17,168
6	00:01	01:30	04:30	17:30	19:50						17,175
7	00:01	02:00	05:00	18:15	20:30	23:15					17,160
8	00:05	01:35	05:30	19:00	21:00	23:15					17,172
9	00:20	02:10	06:15	20:00	22:00						16,246
10		03:45	06:45	16:30	19:00	21:00	22:00				14,460
11		04:30	07:30	10:00	21:00						15,358
12		09:00	12:30	19:15	22:15						14,575
13		17:21	23:15								14,858
14		17:45									14,859
15	00:25	15:38									13,874
16	00:45	15:45									13,881
17	01:30	16:30									14,768
18	03:30	17:51									14,863
19	00:15	01:50	03:15								13,270
20		00:30	03:45	21:30							14,867
21	00:01	01:00	04:00	20:58							14,863
22	00:01	01:20	04:45	21:12							13,875
23	00:01	01:35	05:30	22:25							12,873
24	00:01	03:05	06:15	21:35							9,912
25	00:01	17:15									8,917
26	00:01	11:40									7,923
27	00:01	12:53									7,917
28	00:01	16:30									9,907
29	00:01	19:14									10,891
30	00:46	20:30									10,889
31	01:45	18:53									10,904
Total inflow for the month in AF:											414,945

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Local Other	Article 56C	Federal Contractor	
	No.	Structure	Mile								
1A			1.83	Byron-Bethany I.D.	105			105			
1	1	Banks Pumping Plant	3.32		415,077						
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	1,136						
		Check No. 1	5.95								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0						
	2	Check No. 2	12.01								
			12.47	Musco Olive	4						
		Check No. 3	18.29								
	3		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
	4	Check No. 5	29.73								
	5	Check No. 6	34.24								
	6		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
2A	7		42.46	Oak Flat Water District-A	0						
			42.9	Western Hills WD	25						
			43.81	Oak Flat Water District-B	0						
			44.64	Oak Flat Water District-C	0						
		Check No. 8	45.97								
	8		46.18	Oak Flat Water District-D	0						
				Oak Flat Totals:	0						
	9										
			Check No. 9	51.3							
2B	10	Check No. 10	56.86								
	11	Check No. 11	61.4								
	12		66.14	Veteran's Cemetery	1						
		Check No. 12	66.71		393,105						

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

**January 2011**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Local	Article 56C	Article 14B	Other	Recreation	
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	1,136	1	2	154	1	1	1	
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	0							
	2	Check No. 1	3.91									
		Check No. 2	5.21									
	3		7.21	Zone 7 Water Agency Altamont	1							
2		Check No. 3	9.49	Zone 7 Water Agency Patterson	0	2	13	154	1	1	1	
				Storage Exchange	0							
				Project Water	0							
		4	Check No. 4	10.68								
6	5	Check No. 5	12.29									
			13.55	Zone 7 Water Agency Wente #1	0							
			14.16	Zone 7 Water Agency Wente #2	2							
			14.31	Zone 7 Water Agency Ising	0							
		Check No. 6	14.65									
4	8	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	154	13	154	1	1	1	
			Check No. 7	16.38								
				16.57	Zone 7 Water Agency Wente #3	0						
				16.63	Zone 7 Water Agency Wente #4	13						
				16.69	Zone 7 Water Agency Norman Nursery	0						
				16.70	Zone 7 Water Agency Concannon Project Water	0						
			Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0						
					Pumped into South Bay Aqueduct	0						
					Gravity into South Bay Aqueduct	1,870						
5		Deliveries through Del Valle Branch Pipeline			Zone 7 Water Agency Arroyo Valle #1 & #2		14	286	1	1	1	
					Project Water	0						
					Storage Exchange	0						
					Inflow Release	286						
					East Bay Regional Park Dist.							
					Del Valle Recreation	1						
					Zone 7 Water Agency Wente #5	14						
					Zone 7 Water Agency So. Livermore Project							
					Storage Exchange	0						
					Project Water	441						
6		La Costa Tunnel	19.20		Zone 7 - Kalthrof Detjens	0						
					ACWD - Vallecitos Project Water	0						
		Mission Tunnel	22.50		City of San Francisco San Antonio	0						
					ACWD - Bayside 1 & 2 Project Water	250						
7		Santa Clara Pipeline	28.97		Storage Exchange	0						
					S.C.V.W.D. Meter	0						
8			35.86									
9												

1/ Return of MWD non-project water in Shasta under the exchange agreement between MWD and the USBR.

**Table 13. Lake Del Valle**  
Daily Operation

Capacity: 77,106 ac-ft

**January 2011**

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow		
Dec 31	690.54	31,709										
1	690.42	31,636	-73	95	0	0	166	1	1	168	0.12	
2	690.36	31,599	-36	127	0	0	162	0	1	163	0.10	
3	690.55	31,715	115	267	0	0	151	0	1	152	0.05	
4	690.57	31,727	12	162	0	0	149	0	1	150	0.00	
5	690.50	31,684	-43	108	0	0	150	0	1	151	0.00	
6	690.38	31,612	-73	66	0	0	138	0	1	139	0.00	
7	690.27	31,545	-67	62	0	0	128	0	1	129	0.00	
8	690.15	31,472	-73	61	0	0	133	0	1	134	0.00	
9	689.99	31,375	-97	47	0	0	143	0	0	143	0.00	
10	689.91	31,327	-48	28	0	0	74	0	2	76	0.00	
11	689.95	31,351	24	26	0	0	0	0	1	2	0.00	
12	690.02	31,394	42	42	0	0	0	0	0	0	0.06	
13	690.05	31,412	18	19	0	0	0	0	1	1	0.14	
14	690.11	31,488	76	77	0	0	0	0	0	0	0.00	
15	690.14	31,466	-22	-20	0	0	0	0	1	2	0.00	
16	690.18	31,490	24	27	0	0	0	0	3	3	0.00	
17	690.21	31,508	18	19	0	0	0	0	1	1	0.00	
18	690.24	31,527	18	20	0	0	0	0	1	2	0.00	
19	690.26	31,539	12	16	0	0	0	0	4	4	0.00	
20	690.26	31,539	0	4	0	0	0	0	4	4	0.00	
21	690.27	31,545	6	10	0	0	0	0	4	4	0.00	
22	690.28	31,551	6	6	0	0	0	0	0	0	0.00	
23	690.28	31,551	0	3	0	0	0	0	3	3	0.00	
24	690.28	31,551	0	4	0	0	0	0	4	4	0.00	
25	690.29	31,557	6	17	0	0	7	0	4	11	0.00	
26	690.01	31,387	-169	2	0	0	168	0	4	172	0.00	
27	689.86	31,297	-91	18	0	0	105	0	3	108	0.00	
28	689.79	31,255	-42	27	0	0	67	0	3	70	0.00	
29	689.73	31,219	-36	29	0	0	62	0	3	65	0.00	
30	689.68	31,189	-30	23	0	0	53	0	0	53	0.27	
31	689.70	31,201	12	28	0	0	14	0	2	16	0.24	
<b>Total</b>				<b>-508</b>	<b>1,419</b>	<b>0</b>	<b>0</b>	<b>1,870</b>	<b>1</b>	<b>57</b>	<b>1,928</b>	<b>0.98</b>

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

January 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Dec 31	220.21	43,697											
1	219.57	42,042	-1,655	0	4,140	0	6,977	0	8,433	3,719	2	203	
2	219.07	40,762	-1,280	0	4,199	0	6,138	0	8,292	3,011	2	323	
3	218.98	40,533	-229	0	4,272	0	5,734	0	7,159	3,336	2	376	
4	219.40	41,605	1,072	0	4,204	0	5,730	0	6,701	2,978	2	287	
5	220.48	44,400	2,795	0	4,196	0	7,960	0	8,220	2,747	2	222	
6	221.67	47,519	3,119	0	4,163	0	8,194	0	8,220	3,020	2	457	
7	221.51	47,099	-420	0	4,128	0	8,074	0	8,176	4,209	2	-27	
8	221.72	47,651	552	0	4,169	0	8,017	0	8,097	4,044	2	235	
9	222.27	49,102	1,451	0	4,125	0	7,720	0	8,070	3,417	2	376	
10	222.38	49,394	292	0	4,147	0	6,821	0	8,020	3,214	2	415	
11	223.15	51,447	2,053	0	4,122	0	7,804	0	7,972	3,035	2	118	
12	223.86	53,350	1,903	0	4,092	0	7,454	0	6,623	4,395	2	433	
13	223.35	51,982	-1,368	0	4,082	0	7,009	0	7,893	4,176	2	290	
14	223.57	52,571	589	0	4,087	0	6,861	0	7,792	3,110	2	253	
15	223.12	51,367	-1,204	0	4,087	0	6,719	0	7,740	3,841	2	170	
16	222.60	49,980	-1,387	0	4,122	0	6,915	0	7,541	4,233	2	40	
17	222.62	50,033	53	0	4,143	0	6,868	0	7,361	3,835	2	214	
18	222.11	48,677	-1,356	0	4,125	0	6,909	0	7,182	4,448	2	-86	
19	221.75	47,730	-947	0	4,098	0	7,462	0	6,941	5,173	2	79	
20	220.83	45,315	-2,415	0	4,132	0	6,318	0	6,709	4,589	2	-368	
21	220.30	43,931	-1,384	0	3,725	0	7,000	0	6,426	4,775	2	-220	
22	219.85	42,764	-1,167	0	3,262	0	6,615	0	6,267	4,764	2	568	
23	219.90	42,893	129	0	4,047	0	6,493	0	6,091	4,809	2	427	
24	219.91	42,919	26	0	4,093	0	5,638	0	5,223	4,882	2	389	
25	219.03	40,660	-2,259	0	3,423	0	4,380	0	4,499	5,044	3	604	
26	220.17	43,593	2,933	0	4,116	0	4,582	0	2,363	4,859	3	6	
27	220.54	44,557	964	0	4,081	0	3,568	0	3,067	4,500	3	407	
28	219.76	42,531	-2,026	0	2,907	0	4,796	0	4,369	5,009	3	657	
29	219.26	41,247	-1,284	0	3,488	0	4,311	0	3,756	5,132	3	445	
30	218.56	39,473	-1,774	0	4,018	0	4,253	0	4,565	5,074	3	477	
31	218.79	40,052	579	0	4,096	0	4,871	0	3,629	5,392	14	360	
Total				-3,645	0	124,089	0	198,191	0	203,397	128,770	80	8,130
Mean cfs				---	0	4,003	0	6,393	0	6,561	4,154	3	262
Acre-feet				-3,645	0	246,127	0	393,105	0	403,444	255,419	158	16,144

1/ Pump-in located at Mile 79.67R.

2/ Includes 112 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., 1 AF to the Cattle Program and 46 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**January 2011**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Dec 31	502.17	1,532,646							
1	503.60	1,549,173	16,527	8,433	0	60	0	-41	
2	505.10	1,566,575	17,402	8,292	0	60	0	541	
3	506.22	1,579,611	13,036	7,159	0	49	0	-538	
4	507.27	1,591,866	12,255	6,701	0	28	0	-495	
5	508.56	1,606,967	15,101	8,220	0	66	0	-541	
6	509.87	1,622,352	15,385	8,220	0	68	0	-396	
7	511.15	1,637,432	15,080	8,176	0	65	0	-508	
8	512.45	1,652,798	15,366	8,097	0	66	0	-284	
9	513.68	1,667,381	14,583	8,070	0	65	0	-653	
10	514.92	1,682,127	14,746	8,020	0	129	0	-457	
11	516.20	1,697,396	15,269	7,972	0	185	0	-89	
12	517.17	1,708,999	11,603	6,623	0	181	0	-592	
13	518.36	1,723,270	14,271	7,893	0	176	0	-522	
14	519.55	1,737,582	14,312	7,792	0	178	0	-398	
15	520.70	1,751,452	13,870	7,740	0	175	0	-572	
16	521.85	1,765,359	13,907	7,541	0	174	0	-356	
17	523.00	1,779,305	13,946	7,361	0	177	0	-153	
18	524.22	1,794,141	14,836	7,182	0	176	0	474	
19	525.28	1,807,066	12,925	6,941	0	187	0	-238	
20	526.29	1,819,411	12,345	6,709	0	191	0	-294	
21	527.20	1,830,558	11,147	6,426	0	195	0	-611	
22	528.10	1,841,606	11,048	6,267	0	200	0	-497	
23	528.98	1,852,431	10,825	6,091	0	200	0	-433	
24	529.67	1,860,935	8,504	5,223	0	211	0	-725	
25	530.29	1,868,587	7,652	4,499	0	196	0	-445	
26	530.60	1,872,417	3,830	2,363	0	75	0	-357	
27	530.97	1,876,992	4,575	3,067	0	73	0	-687	
28	531.55	1,884,171	7,179	4,369	0	73	0	-677	
29	532.04	1,890,244	6,073	3,756	0	73	0	-621	
30	532.71	1,898,558	8,314	4,565	0	72	0	-301	
31	533.21	1,904,771	6,213	3,629	0	85	0	-412	
Total			372,125	203,397	0	3,909	0	-11,878	
Mean cfs			---	6,561	0	126	0	-383	
Acre-feet			372,125	403,444	0	7,752	0	-23,567	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 4,353 AF, Casa De Fruta 0 AF, and San Benito 3,399 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**January 2011**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	7,377	5,859	0	0	16,727	10,700	120
2	5,973	4,446	0	0	16,447	8,386	120
3	6,617	5,046	0	0	14,199	6,099	97
4	5,907	4,346	0	0	13,292	6,927	56
5	5,449	3,870	0	0	16,304	8,248	130
6	5,990	4,954	0	0	16,304	8,532	134
7	8,349	7,285	0	0	16,218	8,475	129
8	8,021	6,957	0	0	16,061	8,373	130
9	6,778	5,725	0	0	16,007	8,329	129
10	6,375	5,344	0	0	15,908	8,249	256
11	6,019	4,992	0	0	15,813	8,163	366
12	8,718	7,646	0	0	13,137	6,712	360
13	8,284	7,211	0	0	15,655	8,081	350
14	6,169	5,087	0	0	15,456	7,948	353
15	7,619	6,573	0	0	15,353	7,872	348
16	8,397	7,331	0	0	14,958	7,632	345
17	7,606	6,564	0	0	14,600	7,401	352
18	8,822	7,758	0	0	14,246	7,179	350
19	10,260	9,133	0	0	13,768	6,824	371
20	9,103	8,056	0	0	13,307	6,499	379
21	9,472	8,418	0	0	12,746	6,896	387
22	9,449	8,407	0	0	12,431	6,600	396
23	9,538	8,500	0	0	12,082	5,525	396
24	9,683	8,649	0	0	10,359	3,643	419
25	10,005	8,969	0	0	8,924	2,548	388
26	9,638	8,612	0	0	4,688	-426	149
27	8,925	7,885	0	0	6,084	-175	144
28	9,935	8,879	0	0	8,666	1,408	144
29	10,180	9,141	0	0	7,451	218	144
30	10,065	9,027	0	0	9,055	-55	142
31	10,696	9,663	0	0	7,198	175	168
Total	255,419	220,333	0	0	403,444	182,986	7,752

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
January 2011

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Dec 31	327.77	20,562					
1	327.52	20,444	-118	40	0	100	1
2	329.70	21,478	1,034	659	0	138	1
3	329.80	21,526	48	224	0	200	0
4	329.33	21,301	-225	87	0	200	-1
5	328.73	21,015	-286	56	0	200	0
6	328.32	20,821	-194	40	0	137	-2
7	328.04	20,688	-133	33	0	100	0
8	327.72	20,538	-150	24	0	100	1
9	327.38	20,379	-159	20	0	100	0
10	327.18	20,286	-93	53	0	100	0
11	326.69	20,058	-228	0	0	100	-30
12	326.59	20,012	-46	14	0	37	0
13	326.65	20,039	27	14	0	0	-1
14	326.70	20,063	24	12	0	0	0
15	326.75	20,086	23	12	0	0	-1
16	326.79	20,104	18	9	0	0	0
17	326.84	20,128	24	12	0	0	0
18	326.88	20,146	18	9	0	0	0
19	326.91	20,160	14	7	0	0	0
20	326.94	20,174	14	7	0	0	0
21	326.97	20,188	14	7	0	0	0
22	327.00	20,202	14	7	0	0	0
23	327.02	20,211	9	5	0	0	-1
24	327.05	20,225	14	7	0	0	0
25	327.06	20,230	5	3	0	0	-1
26	327.07	20,234	4	2	0	0	0
27	327.09	20,244	10	5	0	0	0
28	327.11	20,253	9	5	0	0	-1
29	327.13	20,262	9	5	0	0	-1
30	327.18	20,286	24	12	0	0	0
31	327.23	20,309	23	12	0	0	-1
Total			-253	1,402	0	1,512	-35
Mean cfs			---	45	0	49	---
Acre-feet			-253	2,781	0	2,999	-35

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

**January 2011**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Dec 31	599.40	654					
1	599.40	654	0	0	0	0	0
2	599.40	654	0	0	0	0	0
3	Not Observed						
4	Not Observed						
5	Not Observed						
6	Not Observed						
7	599.40	654	0	0	0	0	0
8	Not Observed						
9	599.40	654	0	0	0	0	0
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	Not Observed						
31	599.40	654	0	0	0	0	0
<b>Total</b>			0	0	0	0	0
<b>Mean cfs</b>			---	0	0	0	---
<b>Acre-feet</b>			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**  
San Luis Field Division, Monthly Deliveries

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		393,105						
3A		San Luis Reservoir		Department of Parks and Recreation	0	4,353					
				San Felipe Division Santa Clara Water District	4,353						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	3,399						
				Reach 3A Subtotal:	7,752		7,752	0	0		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	0						
				Cattle Program	1						
				Department of Fish & Game	116						
		Thru 85.08	70.91	San Luis Water District	41		41				
				(Floodwater Inflow)	0						
				Reach 3 Subtotal:	158		41	0			
		Dos Amigos Pumping Plant	86.73		255,419		65	52			
4	14		89.03	San Luis Water District	857						
			Thru 94.06								
			89.66	Pacheco Water District	171						
			89.67								
			89.68	Panoche Water District	79						
		Check No. 14	89.70	City of Dos Palos	58						
			95.06								
		15	98.15	San Luis Water District	122		122				
			Thru 104.20								
			96.15	Panoche Water District	1,256						
			102.64	(Floodwater Inflow)	0						
			102.64	Broadview Water District	0						
		Check No. 15	105.22	Westlands Water District	3,301		3,301				
			108.64								
			108.50	Reach 4 Subtotal:	5,844						
				San Felipe Division Total:	7,752						
				Pacheco Water District Total:	171						
				Broadview Water District Total:	0		171				
				City of Dos Palos Total:	58						
				SLWD Reach 4 Subtotal:	979						
				Panoche Water District Total:	1,335						
				SLWD Total:	1,020						
				Westlands WD Reach 4 Subtotal:	3,301						

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

January 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure											
5	16		110.52	(Reverse flow, Kings River)	0	4,171							
				Westlands Water District	4,171								
				Dept. of Fish and Game @ Lat. 4L	0								
				Dept. of Fish and Game @ Lat. 6L	0								
				Dept. of Fish and Game @ Lat. 7L	0								
		Check No. 16	122.07			3,610							
	17		124.18	Westlands Water District	3,610								
	Check No. 17		132.74			3,773							
6	18		133.81	Westlands Water District	3,773								
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	2,445	2,445							
		143.16	City of Coalinga	286									
		Check No. 18	143.23										
	19		145.26	Reach 5 Subtotal:	14,285	14,285	0	0	0				
				GWF Energy	0								
				City of Huron	0								
				SWP Construction @ Lat. 24R	0								
				Kings County to Lemoore NAS Through WWD	73		1/ 73						
				Kings County through WWD 30L	0								
				Westlands Water District	7,000								
7	20		151.19	Check No. 19	155.64	7,073	7,000	73	0				
				Reach 6 Subtotal:									
	21		163.69	City of Huron	57	4,571	57						
				SWP Construction @ Lat. 24R	0								
				Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0								
				Westlands Water District	4,571								
				Check No. 20	164.69								
	21		171.67	164.79	City of Avenal	133	1,044	133					
				167.04	Westlands Water District	1,044							
				Thru									
				Check No. 21	172.40								
				Reach 7 Total:	5,805	5,805	0	0	0				
				SWP Construction Total:	0								
				Westlands WD Total:	29,915								
				City of Coalinga Total:	286								
				City of Huron Total:	57								
				Kings County to Lemoore NAS Through WWD	73								
				City of Avenal Total:	133	40,727	133	0	0				
				Total San Luis Field Division Deliveries:	40,917								

1/ From County of Kings to Westlands Water District.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations  
January 2011

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Dec 31	27,157								
1	27,552	395	0	3,719	3	14	167	3,414	78
2	27,122	-430	68	3,011	3	14	167	2,958	-153
3	27,400	278	74	3,336	3	14	167	3,029	-57
4	27,447	47	27	2,978	3	14	167	2,455	-343
5	27,357	-90	4	2,747	3	14	167	2,471	-141
6	27,647	290	1	3,020	3	14	202	2,570	-86
7	27,253	-394	0	4,209	11	14	202	3,600	-580
8	27,598	345	0	4,044	11	14	202	3,260	-383
9	27,452	-146	0	3,417	11	14	202	2,751	-513
10	27,064	-388	0	3,214	11	14	202	2,838	-345
11	27,231	167	0	3,035	11	14	202	1,881	-843
12	28,057	826	0	4,395	11	14	202	3,063	-688
13	27,974	-83	0	4,176	11	23	462	2,965	-756
14	28,066	92	0	3,110	14	23	462	2,207	-358
15	28,198	132	0	3,841	14	23	462	2,703	-572
16	27,466	-732	0	4,233	14	23	462	3,820	-284
17	27,742	276	0	3,835	14	23	462	2,611	-586
18	26,985	-757	0	4,448	14	23	462	3,880	-451
19	27,534	549	0	5,173	14	23	462	3,320	-1,077
20	27,278	-256	0	4,589	14	25	718	3,808	-153
21	27,700	422	0	4,775	19	29	718	3,239	-558
22	27,242	-458	0	4,764	19	29	718	3,947	-282
23	27,532	290	0	4,809	19	29	718	3,773	-124
24	27,187	-345	0	4,882	19	29	718	4,225	-65
25	27,518	331	0	5,044	19	29	718	3,897	-214
26	27,201	-317	0	4,859	19	29	718	4,102	-151
27	27,960	759	0	4,500	22	29	971	3,107	11
28	27,628	-332	0	5,009	70	29	971	4,194	88
29	27,528	-100	0	5,132	70	29	971	4,158	45
30	28,498	970	0	5,074	70	29	970	3,526	10
31	28,421	-77	0	5,392	70	29	967	4,462	97
Total		1,264	174	128,770	609	673	15,359	102,235	-9,434
Mean cfs		---	6	4,154	20	22	495	3,298	-304
Acre-feet		1,264	345	255,419	1,208	1,335	30,464	202,783	-18,710

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 171 AF to Pacheco W.D., 58 AF to the City of Dos Palos and 979 AF to San Luis Water District.

3/ Includes 57 AF to the City of Huron, 133 AF to the City of Avenal, 286 AF to the City of Coalinga, 0 AF to City of Huron P&R @ 22R, 73 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 0 AF DWR Water Truck @ 22R, 0 AF DFG @ 7L, 0 AF Non-Project Water, 27,470 AF to Westlands Water District, and 2,445 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

January 2011

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	32	38	30	26	31	3,700	3,731	3,517	3,562
2	43	51	42	40	44	3,212	3,392	3,288	3,221
3	27	30	27	25	28	2,633	2,753	2,664	2,606
4	26	33	28	25	28	2,551	2,613	2,515	2,585
5	21	32	24	21	24	1,921	2,116	2,036	2,024
6	37	43	44	41	47	2,075	2,158	2,095	2,155
7	35	37	39	35	39	4,097	3,496	4,034	3,979
8	66	75	43	39	45	4,172	4,079	3,920	3,949
9	120	138	44	39	46	2,776	2,829	2,699	2,724
10	56	56	34	31	35	2,655	2,667	2,635	2,599
11	101	86	37	34	39	1,574	1,245	1,141	1,184
12	148	136	36	33	36	3,458	3,222	3,172	3,099
13	105	95	38	33	40	3,385	3,163	3,047	2,965
14	87	78	38	35	39	1,800	2,206	2,148	2,085
15	163	146	47	44	50	2,755	2,546	2,428	2,512
16	44	56	48	44	49	3,649	3,761	3,655	3,678
17	60	54	34	30	35	3,679	3,557	3,431	3,341
18	88	80	14	14	16	2,808	3,999	3,840	3,848
19	147	136	85	79	85	4,594	4,962	4,819	4,740
20	169	186	83	75	82	3,861	3,900	3,773	3,744
21	146	132	95	89	95	3,665	4,235	3,954	4,039
22	168	178	93	86	93	4,230	4,263	4,106	4,053
23	218	204	77	69	77	4,236	4,278	4,155	4,021
24	168	171	86	79	88	4,022	4,086	3,934	3,786
25	166	180	98	90	98	4,528	4,663	4,567	4,516
26	180	186	89	80	90	3,956	4,119	4,000	3,940
27	145	144	91	85	93	2,972	2,966	2,839	2,796
28	194	206	95	86	95	4,018	4,103	4,053	4,088
29	191	179	94	87	96	4,535	4,615	4,447	4,408
30	169	151	115	102	118	3,997	4,233	4,136	4,074
31	70	85	86	78	88	4,807	4,942	4,749	4,740
Total	3,390	3,402	1,834	1,674	1,869	106,321	108,898	105,797	105,061

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Structure			Table A	USBR	Carryover Article 56C	Carryover Article 12E	Other		
	No.		Mile									
7	21	Check No. 21	172.40		202,783							
8C	22		172.66	Empire West Side ID TL - A	0			272				
				County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	272							
			175.18	Dudley Ridge WD - 1	0							
			177.54	Dudley Ridge WD - 1B	4							
			180.64	Tulare Lake Basin WSD - C	0							
			180.65	Dudley Ridge WD - 1A	380							
			182.99	Dudley Ridge WD - 2	2							
			183.00	Tulare Lake Basin WSD TL - B	0							
				County of Kings TL-B	0							
31A			184.00	Dudley Ridge WD - Paramount	1							
			184.63	Coastal Branch	3,390							
8D			184.78	Dudley Ridge WD - 3	0							
				Dudley Ridge Reach 8D Total:	387	0	0	387	0	0		
				Tulare Lake Basin WSD Total:	272	0	0	272	0	0		
		Check No. 22	184.82									
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	1,012			852				
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	0							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	0							
			196.40	Kern County Water Agency Berrenda Mesa - 2	323							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	0							
				KCWA Reach 9 Subtotal:	1,335		160	0	1,175	0		
				Check No. 23	197.05							
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	47			47				
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	18							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0							
			Check No. 24	207.94								
			25	209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	6		18	6	1/ 2,220		
				209.78	Kern National Wildlife Refuge USBR BV-1B	957						
					Kern County Water Agency Buena Vista WSD 1B	30						
			209.80	KCWA Semitropic WSD	4,152							
				KCWA Semitropic WSD Penstocks	0							
					USBR Total:	957	0	957	0	0		
					KCWA Reach 10A Subtotal:	4,253	0	0	2,033	0		
1/ WWD CVP water delivered to Semitropic for storage.												

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Carryover Article 56C	Carryover Article 12E	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0			102				
			214.11	Kern County Water Agency Belridge - 3	102							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	735							
				Kern County Water Agency Belridge - 5D	130							
		Check No. 25	217.79									
				KCWA Reach 11B Subtotal:	967	0	0	967	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0			29				
				Kern County Water Agency West Kern - 3	29							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0			2,393	45,875	2/ 5,608		
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	2,393							
				Kern County WA CVC	51,483							
				DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	53,876	0	0	48,268	0	5,608		
13B	29		238.19	Kern Water Bank Inflow	0			36,132		3/ 5,010		
				Kern Water Bank Outflow	41,142							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	1,046							
			243.09	Kern County Water Agency Buena Vista - 3	502							
			Check No. 29	244.54								
	30		249.85	Kern County Water Agency Buena Vista - 4	124							
			250.99	Buena Vista Pumping Plant	106,321							
				KCWA Reach 13B Subtotal:	42,814	0	0	37,804	0	5,010		
14A	31		254.47	Kern County Water Agency West Kern - 2	0			1				
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	1							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Castaic Lake WA Art.56C delivered to Rosedale Rio Bravo.

3/ DRWD Art.56C delivered to KWB for storage.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Table A	USBR	Carryover Article 56C	Carryover Article 12E	Other
	No.	Structure								
14A	31	Check No. 31	256.14					108	146	
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	108					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	146					
		Check No. 32	261.72							
			KCWA Reach 14A Subtotal:	255		0	0	255	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	134			134	2	
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	2					
		Check No. 33	267.36							
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	398					
			Check No. 34	271.27						
			Reach 14B Total:	534		0	0	534	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	215			215	132	
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	132					
			277.30	Kern County Water Agency Arvin-Edison WSD	2,231					
				Reach 14C Total:	2,578					
	Teerink Pumping Plant	278.13			108,898					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	5			5	353	
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	353					
				Reach 15A Total:	358					
	Chrismen Pumping Plant	280.36			105,797					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0			14	3	
			Check No. 37	283.95						
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	14			14	3	
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	3					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
			Check No. 38	287.09						
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	4					
	39		290.21					4	274	
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	274					
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	80					
				Kern County Water Agency Tehachapi Cummings CWD	0					
			KCWA Reach 16A Subtotal:	375		0	0	375	0	0
17E	Edmonston Pumping Plant	293.45			105,061					

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Carryover Article 56C	Carryover Article 12E	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		3,390						
		Las Perillas Pumping Plant	1.16		3,390						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		3,402						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0						
			14.83	Kern County Water Agency Berrenda Mesa - 1	1,565					1,565	
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		1,834						
				KCWA Reach 31A Subtotal:	1,565	0	0	1,565	0	0	
				KCWA Total:	108,939	160	0	95,941	0	12,838	
33A	C-7	Bluestone Pumping Plant	19.05		1,674						
	C-8	Polonio Pass Pumping Plant	26.54		1,869						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,534						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	294						
		Energy Dissipater	78.12								
		Lopez T.O.	85.86	SLOCFC & WCD	0						
35	C-12			CCWA Total:	1,828	0	0	1,534	294	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0	0	0	0	0	0	
		Tank Site 5	115.42								

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

**January 2011**

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
1	828	493	0	0	389	0	2,220	0	496	2,997	3,157	0	0	2,892	0	0	0
2	0	484	0	0	414	1,525	2,438	0	571	2,655	2,804	0	0	2,947	0	0	0
3	0	0	0	0	854	638	2,219	0	182	2,707	2,742	0	0	2,677	0	0	0
4	0	0	0	0	430	622	1,527	0	1,188	2,482	2,457	0	0	2,537	0	0	0
5	0	482	0	0	1,322	672	668	0	1,174	2,525	2,513	0	0	1,594	0	0	0
6	136	384	0	702	2,809	0	1,904	0	0	2,212	2,314	0	0	2,978	22	22	0
7	2,858	1,455	0	1,273	3,404	0	906	0	0	1,251	1,379	0	0	1,858	53	53	25
8	3,023	1,499	0	1,388	188	0	715	0	0	661	938	0	6	2,162	62	62	32
9	2,561	1,497	0	1,388	133	0	0	0	0	0	0	0	691	1,941	62	62	32
10	2,517	1,496	0	405	1,636	0	0	0	33	0	0	0	419	2,190	62	63	32
11	1,186	477	0	533	3,194	561	0	0	0	0	0	0	213	2,448	61	61	32
12	2,896	1,450	0	1,388	2,658	0	0	0	130	0	0	16	82	2,624	61	61	41
13	2,995	1,453	0	1,388	2,854	0	0	0	0	206	0	16	276	2,502	61	61	41
14	1,852	1,026	0	405	2,725	10	183	0	275	0	0	16	0	2,286	61	61	41
15	839	1,027	0	0	363	0	1,758	0	0	191	0	16	0	2,147	61	61	40
16	1,166	1,028	0	0	996	1,529	2,402	0	0	1,993	27	0	0	2,136	61	61	40
17	163	372	0	0	157	1,044	2,886	0	587	3,151	2,817	0	0	2,653	61	61	40
18	627	306	0	0	673	649	2,715	0	281	3,107	3,231	0	0	2,810	61	61	32
19	680	304	0	0	2,546	32	2,689	0	769	3,702	3,664	0	0	3,293	61	61	32
20	316	305	0	0	641	594	2,853	0	636	3,634	3,516	0	0	3,062	61	61	32
21	630	304	0	0	1,534	716	2,798	0	496	3,685	3,599	0	0	3,103	61	61	41
22	317	305	0	0	216	1,452	2,862	0	619	3,709	3,650	0	0	3,131	61	61	41
23	316	308	0	0	182	672	2,895	0	554	3,709	3,644	0	0	3,107	61	61	41
24	318	315	0	0	1,012	0	2,656	0	661	3,709	3,640	0	0	3,196	60	60	41
25	316	310	0	0	716	816	2,255	0	1,636	3,644	3,584	0	0	3,156	69	69	41
26	163	308	0	0	2,134	831	2,474	0	837	3,709	3,586	0	0	3,504	60	61	40
27	317	293	0	0	729	735	2,378	0	140	2,320	2,403	0	0	2,431	61	61	41
28	263	294	0	0	282	1,187	2,852	0	645	3,709	3,695	0	0	3,516	60	61	41
29	316	301	0	0	123	0	2,373	0	1,083	3,370	3,299	0	0	3,581	61	61	41
30	263	321	0	0	1,382	0	2,931	0	662	3,709	3,496	0	0	3,202	61	61	41
31	1,078	1,020	0	0	1,235	1,003	2,955	0	558	3,429	3,568	0	0	3,715	25	25	17
Total	28,940	19,617	0	8,870	37,931	15,288	57,512	0	14,213	72,176	69,723	64	1,687	85,379	1,511	1,514	918

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)			
				Project		Natural	Project		To Piru Creek				
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Dec 31	2573.63	164,321											
1	2573.67	164,371	50	0	493	0	142	389	0	136	0	-60	
2	2575.01	166,070	1,699	1,525	484	0	132	414	0	138	0	110	
3	2574.88	165,904	-166	638	0	0	118	854	0	136	0	68	
4	2575.04	166,108	204	622	0	0	117	430	0	136	0	31	
5	2574.91	165,942	-166	672	482	0	106	1,322	0	110	0	6	
6	2573.19	163,766	-2,176	0	384	702	101	2,809	1	110	0	-443	
7	2572.44	162,822	-944	0	1,455	1,273	99	3,404	0	110	0	-257	
8	2574.70	165,676	2,854	0	1,499	1,388	99	188	0	100	0	156	
9	2576.98	168,588	2,912	0	1,497	1,388	97	133	0	100	0	163	
10	2577.15	168,806	218	0	1,496	405	87	1,636	0	90	0	-44	
11	2575.89	167,191	-1,615	561	477	533	78	3,194	0	90	0	20	
12	2576.02	167,357	166	0	1,450	1,388	74	2,658	0	110	0	22	
13	2575.87	167,166	-191	0	1,453	1,388	78	2,854	0	110	0	-146	
14	2574.70	165,676	-1,490	10	1,026	405	80	2,725	0	130	0	-156	
15	2575.23	166,350	674	0	1,027	0	82	363	1	130	0	59	
16	2576.42	167,869	1,519	1,529	1,028	0	86	996	0	130	0	2	
17	2577.25	168,935	1,066	1,044	372	0	105	157	0	130	0	-168	
18	2577.53	169,295	360	649	306	0	128	673	0	180	0	130	
19	2575.81	167,089	-2,206	32	304	0	116	2,546	0	173	0	61	
20	2575.92	167,230	141	594	305	0	101	641	0	167	0	-51	
21	2575.39	166,553	-677	716	304	0	84	1,534	0	150	0	-97	
22	2576.64	168,151	1,598	1,452	305	0	78	216	0	150	0	129	
23	2577.31	169,012	861	672	308	0	72	182	1	150	0	142	
24	2576.58	168,074	-938	0	315	0	67	1,012	0	130	0	-178	
25	2576.96	168,562	488	816	310	0	62	716	0	118	0	134	
26	2575.99	167,319	-1,243	831	308	0	58	2,134	0	118	0	-188	
27	2576.26	167,664	345	735	293	0	53	729	0	118	0	111	
28	2577.11	168,755	1,091	1,187	294	0	51	282	0	118	0	-41	
29	2577.21	168,883	128	0	301	0	51	123	0	118	0	17	
30	2576.37	167,805	-1,078	0	321	0	50	1,382	0	118	0	51	
31	2576.87	168,446	641	1,003	1,020	0	50	1,235	0	118	0	-79	
Total				4,125	15,288	19,617	8,870	2,702	37,931	3	3,922	0	-496

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Dec 31	1517.58	22,221								
1	1518.64	22,665	444	389	27	0	27	0	55	
2	1516.03	21,580	-1,085	414	26	1,525	26	0	26	
3	1516.60	21,815	235	854	28	638	28	0	19	
4	1516.09	21,605	-210	430	25	622	25	0	-18	
5	1517.68	22,263	658	1,322	24	672	24	0	8	
6	1517.42	22,154	-109	2,809	22	0	22	2,777	-141	
7	1515.76	21,470	-684	3,404	20	0	20	4,083	-5	
8	1504.86	17,259	-4,211	188	18	0	18	4,393	-6	
9	1505.05	17,328	69	133	16	0	16	0	-64	
10	1509.65	19,050	1,722	1,636	14	0	14	0	86	
11	1510.79	19,489	439	3,194	13	561	13	2,136	-58	
12	1508.02	18,430	-1,059	2,658	12	0	12	3,702	-15	
13	1512.45	20,139	1,709	2,854	12	0	12	1,117	-28	
14	1518.75	22,711	2,572	2,725	11	10	11	0	-143	
15	1514.30	20,877	-1,834	363	11	0	11	2,175	-22	
16	1510.53	19,389	-1,488	996	11	1,529	11	938	-17	
17	1508.32	18,543	-846	157	10	1,044	10	0	41	
18	1508.28	18,528	-15	673	10	649	10	0	-39	
19	1509.88	19,138	610	2,546	9	32	9	1,884	-20	
20	1509.13	18,851	-287	641	8	594	8	331	-3	
21	1511.14	19,625	774	1,534	9	716	9	0	-44	
22	1508.09	18,457	-1,168	216	9	1,452	9	0	68	
23	1506.96	18,033	-424	182	8	672	8	0	66	
24	1509.63	19,042	1,009	1,012	7	0	7	0	-3	
25	1509.18	18,870	-172	716	8	816	8	0	-72	
26	1508.97	18,790	-80	2,134	7	831	7	1,349	-34	
27	1508.90	18,763	-27	729	7	735	7	13	-8	
28	1506.61	17,903	-860	282	7	1,187	7	0	45	
29	1506.96	18,033	130	123	7	0	7	0	7	
30	1510.54	19,393	1,360	1,382	7	0	7	0	-22	
31	1511.11	19,614	221	1,235	7	1,003	7	0	-11	
Total				-2,607	37,931	410	15,288	410	24,898	-352

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Dec 31	1502.10	295,616								
1	1501.82	295,023	-593	27	0	39	780	65	186	
2	1501.58	294,516	-507	26	0	39	498	65	-9	
3	1501.30	293,924	-592	28	0	36	480	65	-111	
4	1501.05	293,396	-528	25	0	33	470	65	-51	
5	1500.70	292,659	-737	24	0	31	630	54	-108	
6	1501.81	295,002	2,343	22	2,777	31	670	50	233	
7	1503.41	298,400	3,398	20	4,083	31	650	50	-36	
8	1504.90	301,585	3,185	18	4,393	28	700	45	-509	
9	1504.46	300,642	-943	16	0	28	820	45	-122	
10	1504.02	299,701	-941	14	0	28	850	45	-88	
11	1504.57	300,878	1,177	13	2,136	25	860	45	-92	
12	1505.85	303,626	2,748	12	3,702	25	940	45	-6	
13	1505.98	303,905	279	12	1,117	25	970	45	140	
14	1505.57	303,023	-882	11	0	24	906	45	34	
15	1506.13	304,229	1,206	11	2,175	23	930	45	-28	
16	1506.01	303,970	-259	11	938	23	970	45	-216	
17	1505.49	302,851	-1,119	10	0	22	1,030	45	-76	
18	1504.90	301,585	-1,266	10	0	21	1,185	41	-71	
19	1505.17	302,164	579	9	1,884	22	1,200	40	-96	
20	1504.69	301,135	-1,029	8	331	20	1,050	40	-298	
21	1504.07	299,808	-1,327	9	0	20	1,054	40	-262	
22	1503.59	298,784	-1,024	9	0	19	1,040	40	28	
23	1503.18	297,910	-874	8	0	19	1,001	40	140	
24	1502.70	296,889	-1,021	7	0	19	980	30	-37	
25	1502.18	295,786	-1,103	8	0	18	1,041	30	-58	
26	1502.35	296,134	348	7	1,349	18	1,038	27	39	
27	1501.82	295,023	-1,111	7	13	14	1,095	23	-27	
28	1501.26	293,840	-1,183	7	0	14	1,046	23	-135	
29	1500.50	292,237	-1,603	7	0	12	2,755	23	1,156	
30	1499.66	290,473	-1,764	7	0	12	1,790	23	30	
31	1499.45	290,032	-441	7	0	10	1,400	23	965	
<b>Total</b>				<b>-5,584</b>	<b>410</b>	<b>24,898</b>	<b>729</b>	<b>30,829</b>	<b>1,307</b>	
									<b>515</b>	

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Flexible Withdrawal	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		28,940							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(8,870 AF of flow through Gorman Creek Imp. Channel)		19,617						
29H	W3	Pyramid Lake		USFS		3	3					
				Pyramid Recreation (T300)	3							
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(15,288 AF pumpback ) 2/	37,931							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		2,433	1				3/ 27,024	
		Lake		Castaic Lake Recreation (T301)	1							
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.6	MWDSC 78" & 132" (T302)	29,457							
				Castaic Lake WA 18", 24" & 54" (T303)	1,023							
				Castaic Lake WA Rio Vista T.P. (T304)	348							
				MWD-Ventura Co. WPD (T302)	0							
				Releases to Lagoon	1,307							
				Reach 30 Subtotal:	30,829		2,433	1	0	0	1,371	27,024
		Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
	W6	Castaic Lagoon Outlet	31.9		758							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Westlands WD and San Luis WD exchange with MWD.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River			
Dec 31	3351.71	71,796												
1	3352.02	72,092	296	3,157	0	141	0	0	2,892	0	144	34	0	
2	3351.93	72,006	-86	2,804	0	128	0	0	2,947	0	99	28	0	
3	3352.19	72,255	249	2,742	0	150	0	0	2,677	0	99	133	0	
4	3352.13	72,197	-58	2,457	0	115	0	0	2,537	0	99	6	0	
5	3352.18	72,245	48	2,513	0	128	0	0	1,594	0	99	-900	0	
6	3352.47	72,523	278	2,314	0	158	18	0	2,978	0	99	901	0	
7	3352.02	72,092	-431	1,379	0	154	0	0	1,858	0	99	-7	0	
8	3350.67	70,809	-1,283	938	6	146	8	0	2,162	0	99	-103	0	
9	3349.24	69,463	-1,346	0	691	141	5	0	1,941	0	99	-133	0	
10	3347.47	67,817	-1,646	0	419	129	5	0	2,190	0	99	100	0	
11	3344.86	65,428	-2,389	0	213	126	0	0	2,448	0	99	-181	0	
12	3342.13	62,978	-2,450	16	82	116	7	1	2,624	0	75	43	0	
13	3339.77	60,900	-2,078	16	276	112	4	0	2,502	0	0	24	0	
14	3337.08	58,576	-2,324	16	0	112	3	0	2,286	0	0	-163	0	
15	3334.78	56,626	-1,950	16	0	114	1	0	2,147	0	0	68	0	
16	3332.28	54,545	-2,081	27	0	109	0	0	2,136	0	0	-81	0	
17	3332.58	54,792	247	2,817	0	108	0	0	2,653	0	54	29	0	
18	3333.12	55,240	448	3,231	0	106	0	0	2,810	0	99	20	0	
19	3333.65	55,681	441	3,664	0	100	0	0	3,293	0	99	69	0	
20	3334.07	56,031	350	3,516	0	94	0	0	3,062	0	99	-99	0	
21	3334.72	56,576	545	3,599	0	90	0	0	3,103	0	99	58	0	
22	3335.47	57,208	632	3,650	0	88	0	0	3,131	0	99	124	0	
23	3335.95	57,614	406	3,644	0	83	0	0	3,107	0	99	-115	0	
24	3336.57	58,141	527	3,640	0	81	0	0	3,196	0	99	101	0	
25	3337.02	58,525	384	3,584	0	76	0	0	3,156	0	99	-21	0	
26	3337.11	58,601	76	3,586	0	71	0	0	3,504	0	99	22	0	
27	3336.99	58,499	-102	2,403	0	67	0	0	2,431	0	99	-42	0	
28	3337.13	58,619	120	3,695	0	67	0	0	3,516	0	99	-27	0	
29	3336.94	58,456	-163	3,299	0	65	0	0	3,581	0	99	153	0	
30	3337.08	58,576	120	3,496	0	68	0	0	3,202	0	99	-143	0	
31	3336.74	58,285	-291	3,568	0	71	0	0	3,715	0	99	-116	0	
Total				-13,511	69,787	1,687	3,314	51	1	85,379	0	2,654	-213	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**January 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Dec 31	1560.19	69,271				
1	1560.63	70,076	805		65	
2	1561.26	71,235	1,159		66	
3	1561.57	71,809	574		66	
4	1561.48	71,642	-167		66	
5	1561.40	71,494	-148		65	
6	1561.37	71,439	-55		65	
7	1561.32	71,346	-93		66	
8	1561.32	71,346	0		65	
9	1561.32	71,346	0		65	
10	1561.35	71,402	56		67	
11	1561.21	71,143	-259		65	
12	1561.29	71,291	148		66	
13	1561.29	71,291	0		65	
14	1561.15	71,032	-259		124	
15	1561.02	70,793	-239		66	
16	1561.10	70,940	147		65	
17	1560.99	70,738	-202		276	
18	1560.99	70,738	0		296	
19	1561.24	71,199	461		75	
20	1561.02	70,793	-406		76	
21	1560.93	70,627	-166		76	
22	1560.96	70,682	55		75	
23	1560.93	70,627	-55		70	
24	1560.92	70,609	-18		80	
25	1560.91	70,590	-19		72	
26	1560.91	70,590	0		65	
27	1560.71	70,223	-367		36	
28	1560.60	70,021	-202		65	
29	1560.77	70,333	312		65	
30	1560.85	70,480	147		66	
31	1560.77	70,333	-147		76	
Total			1,062	5,187	2,576	-1,549

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**January 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Flexible Withdrawal	Local	Article 56C	Other	
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		105,061							
	41		298.65	KCWA Tej.-Cas	Stub							
17F		Check No. 41	303.41									
	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
18A		Check No. 42	304.99									
	43	Alamo Powerplant	305.73	(Includes 57,512 AF generation, 0 AF plant bypass, and 14,213 AF Tehachapi Bypass)	71,725							
19			306.71	AVEK 305th Street West (T287)	0							
			308.05	AVEK 294th Street West (T267)	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West (T269)	0							
	45	Check No. 44	314.81									
			314.93	AVEK 235th Street West (T270)	0							
	46		315.57	AVEK 225th Street West (T271)	0							
		Check No. 45	319.74									
			323.19	Palmdale WD (84) Antelope Valley-East Kern WA Fairmont (T272)	815		10	0	0	815	0	
		Check No. 46	323.84	Mojave Water Agency Fairmont (T272)	10							
20A	Reach 19 Total:					825	10	0	0	0	815	0
	47	Check No. 47	326.77									
			326.91	Antelope Valley-East Kern WA Willow Springs (T273)	17							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
	48	Check No. 48	330.82									
		Check No. 49	335.93									
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	1,543							
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	2							
			340.92	AVEK WA-Temp (T387)	0							
20B	51	Check No. 50	341.51									
			342.06	AVEK WA-Temp (T386)	0							
	52	Check No. 51	342.07									
			342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0							
	53	Check No. 52	343.74									
			346.98	Palmdale WD (T276) Temp.	225							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	0							
21	54	Check No. 53	348.17									
			349.52	Palmdale WD (T394)	0							
	55	Check No. 54	350.25									
		Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0							
	57		354.97	Palmdale WD (T276)	0							
			354.97	Palmdale WD (T391)	0							
		Check No. 57	356.93									
22A	58		357.60	AVEK 95th Street East (T279)	0							
			357.72	AVEK 96th Street East (T280)	0							
			359.76	AVEK East Side Treatment Plant (T281)	0							

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**January 2011**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries							
	Beginning and Ending				Table A	Rec.	Flexible Withdrawal	Local	Article 56C	Other		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		72,176							
	59	Check No. 59	366.09									
	60		366.50	AVEK Big Rock Siphon (T368)	0							
	Check No. 60	373.94										
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency White Road 24" & 42" (T282)	94					2/ 94		
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	359				268	2/ 91		
23		Check No. 66	403.41									
		Mojave Siphon	405.58	Las Flores Ranch Exchange	0					1/ 0		
24		Mojave Siphon Powerplant	405.65		69,723							
	67	Silverwood Lake	407.65	MWA CS DAM (T288)	0							
				California State Park Silverwood (T288)	1							
			407.70	Crestline-Lake Arrowhead WA State Project Water (T289)	51					51		
				Non-Project Water (T289)	0							
25		San Bernardino Intake Tunnel			85,379							
26A		Devil Canyon Powerplant	412.73		85,379							
	68	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T292)	0					3/ 17,368		
				MWD-Rialto (T293)	17,368					3/ 40,696		
				MWD-Rialto (T294)	40,696							
				Desert Water Agency Transfer (T293)	0							
				Coachella Valley WD Transfer (T293)	0							
				MWD EBX-1 (T290)	0							
				MWD EBX-1 (T291)	0							
				East Branch Extension	2,956							
				San Gorgonio Pass WA	0							
28G	69	Santa Ana Valley Pipeline	425.46									
28H			433.06	MWD-SC Box Springs (T295)	3,186					3/ 3,186		
			440.05	MWD-SC Perris Bypass Pipeline (T296)	16,142					3/ 16,142		
28J	69	Lake Perris	442.00	MWD-SC (T297)	171	171				3/ 2,007		
			443.44	MWD-SC 54" & 78" (T299)	2,393	386						
				Calif. State Park Lake Perris Parks & Rec. (T298)	12	12						
				MWD Total:	109,413	2,990	0	0	0	106,423		

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ MWD provided SWP water supplies to MWA for groundwater storage in the Mojave River Basin.

3/ Westlands WD and San Luis WD exchange with MWD.

4/ Includes 0 AF to San Gabriel Valley MWD, 2,096 AF to San Bernardino Valley MWD, and 860 AF to San Gorgonio Pass WA.

**Table 32. Water Quality At Selected SWP Locations**

January 2011

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	43	119	53	50	49	47	46	45	62
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.001	0.001	<0.001	0.001	0.001	0.001	0.001
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.04	0.07	0.06	0.06	0.07	0.06	0.05	0.19
Calcium	mg/l	10	17	16	15	15	15	14	14	18
Chloride	mg/l as C	1	35	31	28	28	28	27	24	64
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	<0.001
Fluoride	mg/l	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	48.000	117.000	75.000	71.000	70.000	68.000	66.000	63.000	89.000
Iron	mg/l	0	0	0	0	0	0	0	0	0.0
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	18.000	8.000	8.000	8.000	8.000	8.000	7.000	11.000
Manganese	mg/l	<0.005	0.063	0.005	0.034	0.008	0.006	<0.005	<0.005	0.016
Nitrate + Nitrite	mg/l	0	0	1	1	1	1	1	1	1
Organic Carbon, Dissolved	mg/l	NR	13.200	4.700	5.500	5.100	5.400	5.400	5.000	3.000
Organic Carbon, Total	mg/l as N	NR	14.50	4.90	5.80	5.40	5.70	5.70	5.00	3.00
Phosphate-Ortho	mg/l as P	<0.01	0.15	0.08	0.05	0.07	0.08	NR	0.08	0.04
Phosphorus-Total	mg/l	0.01	0.36	0.13	0.11	0.15	0.12	0.12	0.11	0.06
Selenium	mg/l	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001	<0.001	0.001
Sodium	mg/l	4	44	31	25	26	24	24	22	44
Specific Conductance	µS/cm	94	409	293	261	266	259	250	232	406
Sulfate	mg/l	2	28	34	26	26	26	25	21	26
Total Dissolved Solids	mg/l	58	243	171	152	146	151	144	128	276
Turbidity	NTU	2	42	23	12	20	12	14	15	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	0	0	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

**January 2011**

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Rio Vista	Electrical Conductivity in millisiemens/cm								Cl in mg/l		
			Net Delta Outflow Index			Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average		md	md	md	14dm	md	14dm	md	md	md		
38	1	6.72	4.45	76,350	76,350	57,776	0.19	0.12	0.15	0.15	0.17	0.23	0.23	0.48	0.22	169
	2	6.99	4.70	76,610	76,480	57,474	0.19	0.11	0.15	0.15	0.17	0.21	0.22	0.29	0.21	160
	3	6.95	4.84	76,615	76,525	56,209	0.19	0.11	0.15	0.15	0.17	0.19	0.21	0.26	0.21	142
	4	6.57	4.57	75,009	76,146	55,153	0.18	0.11	0.15	0.14	0.16	0.18	0.20	0.37	0.21	143
	5	6.22	4.35	71,307	75,178	52,825	0.18	0.12	0.16	0.14	0.17	0.18	0.20	0.46	0.21	143
	6	5.84	4.13	64,100	73,332	49,088	0.18	0.12	0.16	0.15	0.17	0.17	0.23	0.54	0.23	148
	7	5.65	4.11	58,662	71,236	44,832	0.18	0.12	0.17	0.15	0.17	0.17	0.22	0.59	0.25	149
	8	5.25	4.03	52,631	68,910	40,570	0.19	0.12	0.17	0.15	0.17	0.17	0.21	0.66	0.24	175
	9	5.12	3.80	49,673	66,773	37,411	0.19	0.12	0.17	0.15	0.17	0.17	0.21	0.71	0.26	178
	10	5.07	3.53	47,922	64,888	34,968	0.19	0.12	0.17	0.16	0.18	0.17	0.22	0.75	0.27	147
	11	5.09	3.48	44,727	63,055	33,066	0.19	0.13	0.18	0.16	0.18	0.17	0.23	0.78	0.25	158
	12	5.30	3.47	42,121	61,311	31,218	0.19	0.23	0.18	0.16	0.18	0.17	0.24	0.79	0.25	156
	13	5.50	3.56	38,796	59,579	29,184	0.19	0.24	0.18	0.16	0.18	0.17	0.25	0.79	0.24	160
	14	5.64	3.69	36,025	57,896	27,354	0.20	0.15	0.18	0.17	0.18	0.17	0.25	0.79	0.25	157
	15	5.87	3.77	33,571	56,275	25,749	0.20	0.17	0.19	0.17	0.19	0.17	0.25	0.77	0.25	148
	16	6.11	3.96	32,431	54,784	25,349	0.21	0.33	0.19	0.17	0.19	0.18	0.26	0.77	0.26	144
	17	6.16	3.95	31,281	53,402	29,690	0.22	0.54	0.19	0.17	0.19	0.18	0.26	0.77	0.27	131
	18	6.39	4.08	30,885	52,151	25,005	0.23	0.56	0.20	0.18	0.20	0.18	0.26	0.76	0.26	117
	19	6.39	4.15	31,153	51,046	24,108	0.23	0.49	0.19	0.18	0.20	0.18	0.24	0.77	0.25	112
	20	6.13	3.93	29,684	49,978	23,621	0.22	0.38	0.19	0.18	0.20	0.18	0.25	0.78	0.24	104
	21	6.11	4.01	29,041	48,981	22,980	0.23	0.32	0.19	0.18	0.20	0.19	0.25	0.78	0.24	89
	22	5.91	4.03	27,523	48,005	21,410	0.23	0.28	0.19	0.19	0.20	0.19	0.25	0.77	0.26	83
	23	5.53	3.88	26,249	47,059	20,875	0.22	0.23	0.19	0.19	0.20	0.19	0.25	0.77	0.26	80
	24	5.63	3.79	26,799	46,215	20,656	0.22	0.20	0.19	0.19	0.20	0.19	0.27	0.76	0.28	72
	25	5.83	3.75	26,491	45,426	20,094	0.22	0.21	0.19	0.19	0.20	0.19	0.29	0.77	0.31	71
	26	5.91	3.67	25,115	44,645	19,558	0.22	0.21	0.19	0.19	0.21	0.20	0.29	0.78	0.31	76
	27	5.95	3.80	23,930	43,878	19,032	0.22	0.27	0.19	0.19	0.21	0.20	0.29	0.76	0.32	70
	28	6.16	4.04	23,086	43,135	18,100	0.22	0.33	0.19	0.19	0.21	0.20	0.29	0.76	0.32	70
	29	6.36	4.21	21,265	42,381	17,456	0.23	0.44	0.19	0.19	0.21	0.20	0.27	0.76	0.29	86
	30	6.53	4.34	19,457	41,617	16,807	0.23	0.57	0.20	0.19	0.21	0.20	0.27	0.71	0.27	81
	31	6.19	4.07	21,228	40,959	17,348	0.24	0.47	0.20	0.19	0.21	0.20	0.27	0.53	0.29	63

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

January 2011

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 16, 2010	Diuron Metolachlor	0.32 0.40
California Aqueduct At Banks Pumping Plant	September 15, 2010	2,4-D	0.40
O'Niell Forebay Outlet Check 13	June 15, 2010	Simazine	0.02
Delta Mendota Canal At McCabe Road	June 15, 2010	Methoxychlor	0.06
California Aqueduct Near Kettleman City (Check 21)	June 15, 2010	Metolachlor Simazine	0.10 0.02
California Aqueduct At Near Highway 119 (Check 29)	June 21, 2010	Simazine	0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	June 16, 2010	Metolachlor Simazine	0.10 0.02
California Aqueduct At Devil Canyon Headworks	June 16, 2010	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

January 2011

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	1,194,336	11	2,082	5,517	4,080,360	4,080,360	2,799	941
2	1,183,501	0	428	879	3,511,264	3,511,264	2,782	941
3	2,527,877	12,199	836	2,278	3,507,232	3,507,232	2,840	929
4	4,288,295	11	2,137	4,645	3,511,968	3,511,968	2,919	912
5	2,864,983	0	631	1,418	4,749,928	4,749,928	2,948	896
6	4,628,877	0	2,952	6,812	4,695,616	4,695,616	2,935	885
7	3,950,540	0	421	2,148	4,719,296	4,719,296	2,909	890
8	3,079,417	0	426	461	4,764,496	4,764,496	2,820	893
9	2,915,572	0	2,912	6,037	4,532,704	4,532,704	2,849	887
10	3,184,852	0	1,773	4,242	4,050,392	4,050,392	3,027	894
11	3,895,584	0	427	463	4,492,784	4,492,784	3,141	894
12	2,260,159	0	405	2,305	4,457,864	4,457,864	3,165	891
13	2,750,374	187	2,223	4,753	4,114,312	4,114,312	3,191	891
14	2,005,817	0	2,045	6,087	4,117,720	4,117,720	25,104	892
15	1,998,337	0	858	2,080	3,900,944	3,900,944	5,088	929
16	2,157,386	0	2,156	5,336	3,898,352	3,898,352	5,786	933
17	2,570,865	0	395	460	4,110,944	4,110,944	8,931	918
18	2,726,548	0	403	451	4,108,752	4,108,752	5,229	911
19	3,039,674	0	2,253	5,210	4,097,976	4,097,976	5,384	897
20	2,920,104	0	2,113	5,722	3,454,680	3,454,680	6,761	880
21	2,515,821	0	405	889	3,988,880	3,988,880	5,490	874
22	1,990,274	0	2,131	6,136	3,897,184	3,897,184	6,818	936
23	2,000,185	0	1,236	1,415	3,819,728	3,819,728	8,519	930
24	2,950,574	0	1,772	4,771	3,179,680	3,179,680	9,257	885
25	2,738,681	0	1,450	3,915	2,686,192	2,686,192	80,802	888
26	3,145,879	0	1,745	4,500	2,457,056	2,457,056	19,325	900
27	2,221,296	0	6,649	18,815	2,457,320	2,457,320	128,524	905
28	1,850,453	1,265	5,267	15,395	2,706,040	2,706,040	148,654	921
29	2,018,522	3,597	6,178	15,310	2,671,368	2,671,368	143,564	900
30	1,216,930	16,599	5,903	18,931	2,671,600	2,671,600	143,538	906
31	2,008,644	5,346	7,019	18,165	2,687,656	2,687,656	143,495	919
Total	80,800,357	39,215	67,629	175,546	116,100,288	116,100,288	938,586	28,068

**Table 36. San Luis Field Division Energy Data**

(in kWh)

January 2011

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,049,566	833,566	0	0	5,661,865	3,621,865
2	844,663	628,663	0	0	5,631,175	2,871,175
3	943,267	719,267	0	0	4,838,372	2,078,372
4	847,481	623,481	0	0	4,510,759	2,350,759
5	772,886	548,886	0	0	5,585,547	2,825,547
6	832,621	688,621	0	0	5,588,693	2,924,693
7	1,130,323	986,323	0	0	5,579,618	2,915,618
8	1,085,886	941,886	0	0	5,565,538	2,901,538
9	926,759	782,759	0	0	5,553,603	2,889,603
10	890,827	746,827	0	0	5,533,011	2,869,011
11	844,004	700,004	0	0	5,506,952	2,842,952
12	1,170,698	1,026,698	0	0	4,541,636	2,321,636
13	1,111,925	967,925	0	0	5,506,523	2,842,523
14	826,400	682,400	0	0	5,484,270	2,820,270
15	1,048,631	904,631	0	0	5,467,275	2,803,275
16	1,134,734	990,734	0	0	5,439,192	2,775,192
17	1,050,710	906,710	0	0	5,402,903	2,738,903
18	1,193,638	1,049,638	0	0	5,370,090	2,706,090
19	1,311,071	1,167,071	0	0	5,282,266	2,618,266
20	1,251,439	1,107,439	0	0	5,207,059	2,543,059
21	1,294,650	1,150,650	0	0	5,072,584	2,744,584
22	1,305,488	1,161,488	0	0	4,963,090	2,635,090
23	1,323,400	1,179,400	0	0	4,908,783	2,244,783
24	1,348,018	1,204,018	0	0	4,109,017	1,445,017
25	1,390,252	1,246,252	0	0	3,728,560	1,064,560
26	1,352,878	1,208,878	0	0	2,078,934	-189,066
27	1,235,601	1,091,601	0	0	2,589,719	-74,281
28	1,355,270	1,355,270	0	0	3,446,025	3,446,025
29	1,411,576	1,411,576	0	0	2,973,146	2,973,146
30	1,396,699	1,396,699	0	0	3,816,879	3,816,879
31	1,490,438	1,490,438	0	0	2,951,575	2,951,575
Total	35,171,798	30,899,798	0	0	147,894,659	78,318,659

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)

January 2011

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	3,071	7,416	21,605	19,861	22,229	900,466	963,056	2,127,092	7,996,914
2	3,829	9,453	30,011	29,765	30,866	780,170	888,583	1,974,236	7,258,410
3	2,791	6,236	20,011	19,222	20,046	630,706	720,373	1,598,091	5,863,806
4	2,752	6,640	20,316	19,451	20,399	610,850	681,300	1,509,453	5,789,907
5	2,331	6,518	17,407	16,412	17,507	463,955	556,654	1,238,061	4,509,162
6	3,446	8,274	31,238	30,795	32,669	500,449	566,140	1,268,256	4,781,025
7	3,259	7,346	27,818	26,210	27,721	987,028	1,071,796	2,411,046	8,907,786
8	5,334	13,235	30,414	29,213	31,264	1,005,745	1,062,225	2,349,006	8,880,516
9	9,009	23,242	31,338	29,294	32,011	665,104	739,157	1,647,195	6,115,824
10	4,890	12,271	24,726	23,959	25,116	643,772	700,297	1,580,183	5,801,787
11	8,020	21,435	26,728	25,422	27,353	385,123	347,636	729,289	2,670,894
12	11,210	30,307	26,053	24,698	25,467	850,975	839,561	1,895,960	6,963,516
13	8,643	21,887	27,183	24,847	27,951	791,795	827,800	1,829,520	6,705,234
14	7,482	20,039	27,240	26,190	27,592	598,988	579,037	1,291,389	4,549,284
15	12,471	32,304	33,820	32,670	35,067	659,792	667,021	1,486,111	5,605,038
16	3,841	10,230	34,018	32,405	34,527	872,050	979,798	2,203,146	8,308,548
17	5,181	13,138	24,484	22,925	24,799	870,606	930,110	2,062,588	7,565,508
18	7,151	19,796	26,599	25,718	27,504	990,290	1,044,032	2,306,678	8,689,788
19	11,432	27,633	58,474	56,410	58,375	1,116,378	1,298,412	2,899,589	10,664,082
20	13,182	35,772	57,335	53,658	57,189	927,621	1,017,515	2,279,178	8,368,488
21	11,476	29,796	65,691	62,894	65,252	939,897	1,101,838	2,459,556	9,108,045
22	12,908	34,976	64,127	60,948	64,431	1,015,508	1,111,369	2,468,785	9,143,928
23	16,678	42,839	53,696	50,155	53,769	1,018,125	1,118,165	2,503,270	9,071,082
24	13,017	34,319	59,825	56,816	60,619	969,599	1,068,003	2,371,875	8,579,439
25	12,993	33,626	67,996	64,148	67,547	1,089,812	1,217,826	2,718,969	10,183,050
26	14,003	37,691	61,731	57,940	62,307	950,281	1,077,935	2,400,662	8,884,350
27	11,096	29,047	62,815	60,735	64,009	720,126	773,525	1,708,696	6,334,335
28	14,623	37,809	66,126	61,737	66,111	962,609	1,071,218	2,437,798	9,194,229
29	14,760	39,393	65,287	61,981	65,538	1,098,430	1,204,130	2,657,611	9,937,350
30	13,295	35,063	79,703	74,438	80,509	970,996	1,102,615	2,475,572	9,166,797
31	5,721	14,799	59,827	56,379	60,506	1,157,074	1,286,966	2,868,393	10,637,298
Total	269,895	702,528	1,303,641	1,237,298	1,316,249	26,144,318	28,614,091	63,757,254	236,235,420

**Table 38. Southern Field Division Energy Data**

(in kWh)

January 2011

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	225,072	300,110	504,000	246,183	2,032,164	3,505,136	251,195	1,891	565	897
2	7,499	300,839	504,000	278,843	1,799,994	3,579,498	217,422	1,875	563	963
3	5,311	375	0	262,992	1,836,009	3,285,684	213,377	1,881	563	927
4	12,676	389	0	167,221	1,684,972	3,129,192	179,135	1,881	557	850
5	3,788	298,285	0	72,678	1,709,988	3,154,403	187,951	1,845	561	754
6	46,868	237,160	2,880,000	228,351	1,497,211	2,491,078	161,327	15,877	19,544	612
7	755,103	897,920	2,880,000	102,606	854,201	2,278,217	90,740	34,194	43,852	2,156
8	804,094	922,779	2,880,000	82,209	456,167	2,665,447	56,161	38,698	49,462	2,988
9	679,463	921,715	2,880,000	0	15,129	2,382,721	0	38,723	49,437	3,063
10	671,248	921,632	2,880,000	0	16,848	2,683,609	0	38,693	49,514	3,061
11	320,250	294,908	288,000	0	17,645	3,008,059	0	38,726	49,568	3,052
12	764,312	896,651	2,880,000	0	16,983	3,214,217	0	38,695	49,625	3,020
13	794,113	897,907	2,880,000	0	158,040	3,052,274	0	38,683	49,659	2,979
14	480,335	638,183	960,000	17,315	15,212	2,798,600	0	38,757	49,689	3,005
15	224,971	637,411	960,000	211,769	142,377	2,616,732	0	38,768	49,707	3,076
16	313,778	638,796	960,000	289,926	1,325,980	2,594,120	428	38,709	49,726	3,097
17	50,177	230,623	288,000	330,979	2,093,933	3,182,620	254,543	38,940	49,751	3,186
18	171,809	189,842	288,000	296,685	2,068,562	3,385,462	302,647	38,877	49,817	3,089
19	184,577	189,540	288,000	312,211	2,450,645	3,931,553	361,845	38,642	49,760	2,953
20	90,749	189,880	288,000	327,875	2,404,170	3,668,504	341,784	38,762	49,684	2,993
21	172,393	189,311	288,000	311,582	2,437,955	3,690,342	345,386	38,563	49,699	2,932
22	89,935	190,021	288,000	322,332	2,451,026	3,757,680	350,737	38,587	49,708	2,948
23	90,294	191,724	288,000	326,655	2,453,777	3,732,646	348,436	38,615	49,689	2,944
24	90,392	195,761	288,000	296,106	2,462,409	3,799,890	344,354	37,084	49,809	2,994
25	90,170	192,850	288,000	250,813	2,445,303	3,774,989	335,606	40,357	55,370	2,948
26	50,814	191,581	288,000	278,452	2,495,753	4,156,567	337,312	36,368	49,683	2,940
27	88,259	182,369	288,000	279,132	1,561,832	2,963,250	200,921	36,839	49,694	2,988
28	74,676	183,484	0	328,569	2,490,224	4,182,970	344,258	36,663	49,695	2,937
29	90,237	187,242	0	256,663	2,265,420	4,267,109	302,634	36,689	49,671	2,942
30	76,299	199,778	0	332,230	2,484,182	3,823,916	328,187	36,774	49,594	2,948
31	287,677	634,408	0	329,737	2,310,089	4,399,740	334,598	14,824	18,783	1,426
Total	7,807,340	12,143,474	27,504,000	6,540,113	48,454,198	103,156,225	6,190,983	954,478	1,232,998	77,668

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.